

JUL 11 2001

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: B. Martinez-Tovar et al : GROUP ART UNIT: 3641  
SERIAL NO: 09/470,343 :  
FILING DATE: December 22, 1999 : EXAMINER: T. Chambers  
TITLE: TITANIUM SEMICONDUCTOR BRIDGE :  
IGNITER : ATTY. DKT.: P-1583

**RESPONSE TO OFFICE ACTION**

Assistant Commissioner For Patents  
Washington, D.C. 20231

June 20, 2001

Dear Sir:

This paper is responsive to the office action mailed March 6, 2001 in the captioned application.

**AMENDMENTS**

Please amend the above-captioned application as follows. A copy of the amended claims, marked to show the changes, accompanies this paper.

1. A semiconductor bridge igniter comprising:

a substrate;

an electrical bridge structure disposed on the substrate and electrically insulated therefrom, the bridge structure comprising a layer of a semiconductor material having a negative coefficient of electrical conductivity at temperatures above ambient temperature and having disposed thereover a layer consisting essentially of titanium, the bridge structure comprising a bridge section extending between and connecting spaced-apart pad sections, each pad section being of larger area than the bridge section; and

a pair of electrically conductive lands each overlying a respective one of the pad sections and being spaced apart from each other to leave the bridge section exposed.

12. A semiconductor bridge igniter comprising:

a substrate;